

WHAT IS CLAIMED IS:

1. A method for managing successful completion of a network of processes,
comprising the steps of:

5 (a) receiving a message indicative of either creation or deletion of one of the
processes;

(b) updating a list of active processes in the network based on the received
message;

(c) repeating steps (a) and (b) until the list is empty; and

10 (d) sending a notification message indicating completion of the network of
processes.

2. The method of claim 1, wherein the notification message is sent to an initiating
process.

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3. The method of claim 2, wherein the initiating process is the root process of the
network.

4. The method of claim 1, wherein the network is represented as a directed acyclic
20 graph.

5. The method of claim 4, wherein the processes are represented as nodes of the
graph.

6. The method of claim 5, wherein the events are represented as edges of the graph.

7. The method of claim 1, wherein result information is written to persistent storage after the notification message is received.

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8. The method of claim 1, wherein the step of updating the list includes adding to the list information identifying a process to be created.

9. The method of claim 1, wherein the step of updating the list includes deleting
10 from the list information identifying a process to be deleted.

10. The method of claim 1, wherein at least one of the processes is executed in a thread different from a thread used to execute another of the processes.

11. The method of claim 1, wherein the received messages are received in event
15 order.

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12. A system for managing successful completion of a network of processes,
comprising:

a list of active processes;

a Q-Manager for keeping track of the state of the network of processes, wherein
5 the Q-Manager updates the list of active processes to reflect the state of the network of
processes, and sends a notification message when processing is determined to have
completed.

13. The system of claim 12, wherein processing is determined to have completed
10 when the list of active processes is empty.

14. The system of claim 12, wherein the notification message is sent to an initiating
process.

15 15. The system of claim 12, wherein the Q-Manager receives messages indicating
whether events are created or consumed.

16. The system of claim 15, wherein the received messages are received in event
order.

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17. A program storage device readable by a machine, tangibly embodying a program of instructions executable on the machine to perform method steps for managing successful completion of a network of processes, the method steps comprising:

(a) receiving a message indicative of either creation or deletion of one of the

5 processes;

(b) updating a list of active processes in the network based on the received message;

(c) repeating steps (a) and (b) until the list is empty; and

(d) sending a notification message indicating completion of the network of

10 processes.

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